6

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     (FILE 'HOME' ENTERED AT 09:17:23 ON 11 JUL 2005)

     FILE 'HCAPLUS' ENTERED AT 09:17:45 ON 11 JUL 2005
L1            1 (WO2000-CA00773# OR US99-140988#)/AP,PRN

     FILE 'REGISTRY' ENTERED AT 09:18:44 ON 11 JUL 2005

     FILE 'HCAPLUS' ENTERED AT 09:18:45 ON 11 JUL 2005
L2              TRA L1 1- RN :       11 TERMS

     FILE 'REGISTRY' ENTERED AT 09:18:45 ON 11 JUL 2005
L3           11 SEA L2

     FILE 'WPIX' ENTERED AT 09:18:48 ON 11 JUL 2005
L4            1 (WO2000-CA00773# OR US99-140988#)/AP,PRN

=> b hcap
FILE 'HCAPLUS' ENTERED AT 09:19:05 ON 11 JUL 2005
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FILE COVERS 1907 - 11 Jul 2005  VOL 143 ISS 3
FILE LAST UPDATED: 10 Jul 2005  (20050710/ED)

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 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

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L1   ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2005 ACS on STN
AN   2001:31526  HCAPLUS
DN   134:102558
ED   Entered STN:  12 Jan 2001
TI   Peptide conjugate-based lipopeptide detergents for the stabilization of
     membrane proteins and interactions with biological membranes
IN   Prive, Gil
PA   University Health Network, Can.
SO   PCT Int. Appl., 29 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
IC   ICM  C07K001-00
CC   46-3 (Surface Active Agents and Detergents)
     Section cross-reference(s): 6, 9
FAN.CNT 1
     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
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PI   WO 2001002425         A2    20010111    WO 2000-CA773           20000629 <--
     WO 2001002425         A3    20010712
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2376650 AA 20010111 CA 2000-2376650 20000629 <--
EP 1196434 A2 20020417 EP 2000-941846 20000629 <--
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IE, SI, LT, LV, FI, RO
PRAI US 1999-140988P P 19990629 <--
WO 2000-CA773 W 20000629 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001002425	ICM	C07K001-00
WO 2001002425	ECLA	C07K014/00B; C07K014/705 <--

AB The present invention provides a novel class of detergents referred to herein as lipopeptide detergents. Lipopeptide detergents comprise an amphipathic α-helical peptide having a hydrophobic or neutral face and a hydrophilic face. To each end of this peptide is covalently linked an aliphatic hydrocarbon tail, these aliphatic tails being linked thereto such that they associate with the hydrophobic or neutral face of the peptide. Lipopeptide detergents can advantageously be used to stabilize membrane proteins in the absence of a phospholipid bilayer in a manner that preserves the native conformation and permits the subsequent crystallization thereof.

ST lipopeptide detergent peptide conjugate membrane protein biomembrane; aliph hydrocarbon peptide conjugate lipopeptide detergent

IT Peptides, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(N-Ac; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Peptides, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amides; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Membrane, biological
(bilayer; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Hydrocarbons, uses
RL: NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(conjugated, with peptides; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Fatty acids, uses
RL: NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(conjugates, with peptides; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Peptides, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(conjugates; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol.

membranes)
IT Polymer chains
(length, of aliphatic hydrocarbon; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)
IT Proteins, specific or class
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(membrane; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)
IT Detergents
α-Helix
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)
IT Lipopeptides
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)
IT Phosphatidylcholines, processes
Phospholipids, processes
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)
IT Bacteriorhodopsins
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)
IT Crystal growth
(use of lipopeptide detergents for membrane protein crystallization; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)
IT 318957-85-6D, conjugates with aliphatic hydrocarbons
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)
IT 57-10-3DP, Hexadecanoic acid, peptide conjugates, uses 57-11-4DP, Octadecanoic acid, peptide conjugates, uses 112-85-6DP, Docosanoic acid, peptide conjugates 143-07-7DP, Dodecanoic acid, peptide conjugates, uses 334-48-5DP, Decanoic acid, peptide conjugates 506-30-9DP, Eicosanoic acid, peptide conjugates 506-48-9DP, Octacosanoic acid, peptide conjugates 544-63-8DP, Tetradecanoic acid, peptide conjugates, uses 557-59-5DP, Tetracosanoic acid, peptide conjugates 318957-87-8DP, conjugates with fatty acids
RL: NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

=> b reg

FILE 'REGISTRY' ENTERED AT 09:19:13 ON 11 JUL 2005
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 JUL 2005 HIGHEST RN 854370-36-8
DICTIONARY FILE UPDATES: 10 JUL 2005 HIGHEST RN 854370-36-8

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d sqide l3 tot

L3 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 318957-87-8 REGISTRY
CN L-Alaninamide, N-acetyl-L-alanyl-L-ornithyl-L-alanyl-L-α-glutamyl-L-alanyl-L-alanyl-L-α-glutamyl-L-lysyl-L-alanyl-L-alanyl-L-lysyl-L-tyrosyl-L-alanyl-L-alanyl-L-α-glutamyl-L-alanyl-L-alanyl-L-α-glutamyl-L-lysyl-L-alanyl-L-alanyl-L-lysyl-L-alanyl-L-ornithyl- (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 25
NTE modified

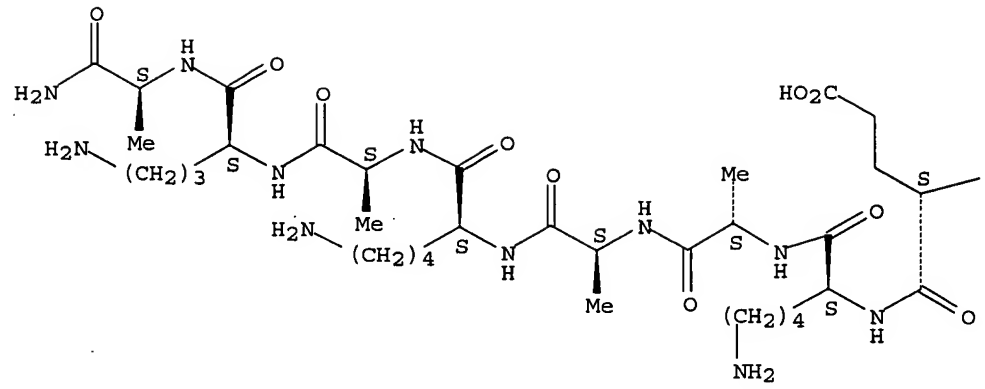
type	------ location ------		description
terminal mod.	Ala-1	-	N-acetyl
terminal mod.	Ala-25	-	C-terminal amide
uncommon	Orn-2	-	-
uncommon	Orn-24	-	-

SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

RELATED SEQUENCES AVAILABLE WITH SEQLINK
MF C107 H180 N32 O35
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RLD.P Roles for non-specific derivatives from patents: PREP (Preparation); PRP (Properties); USES (Uses)

Absolute stereochemistry.

PAGE 1-A



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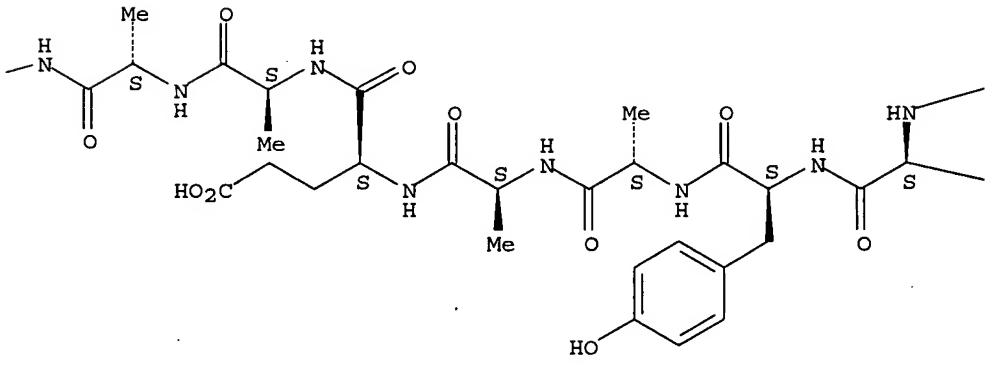

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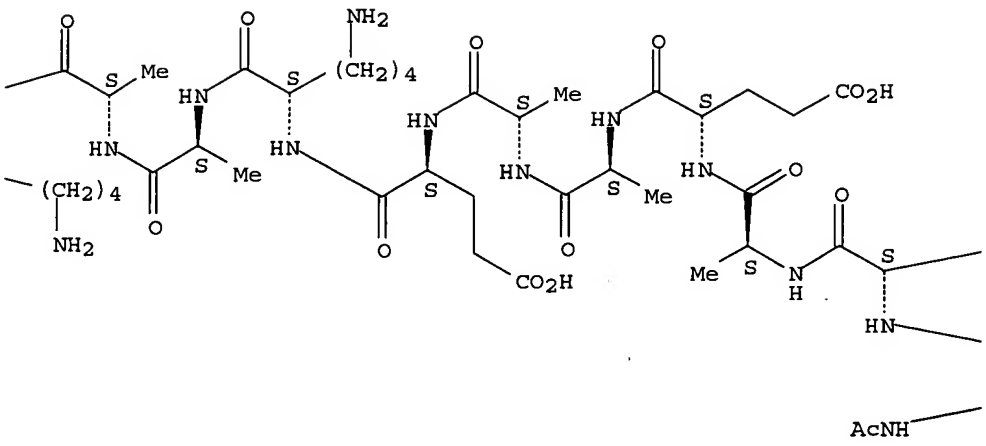

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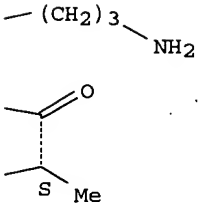

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 318957-85-6 REGISTRY
CN L-Alanine, L-alanyl-L-ornithyl-L-alanyl-L-α-glutamyl-L-alanyl-L-alanyl-L-α-glutamyl-L-lysyl-L-alanyl-L-alanyl-L-lysyl-L-tyrosyl-L-alanyl-L-alanyl-L-α-glutamyl-L-alanyl-L-alanyl-L-α-glutamyl-L-lysyl-L-alanyl-L-alanyl-L-lysyl-L-alanyl-L-ornithyl- (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE; STEREOSEARCH

Search done by Noble Jarrell

SQL 25
NTE

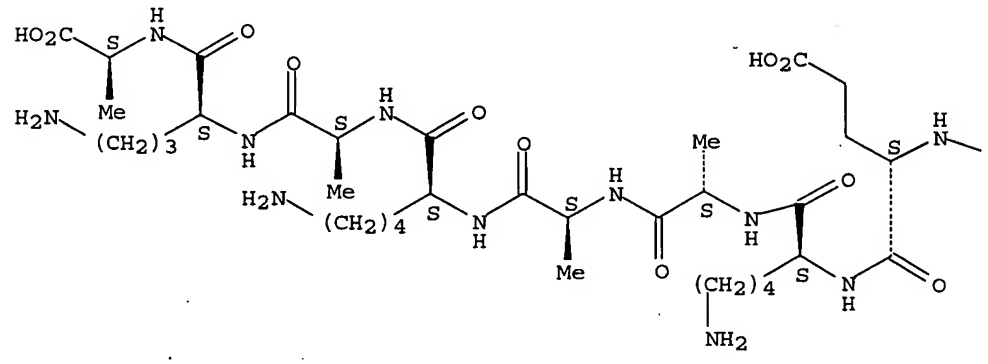
type	location		description
uncommon	Orn-2	-	-
uncommon	Orn-24	-	-

SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

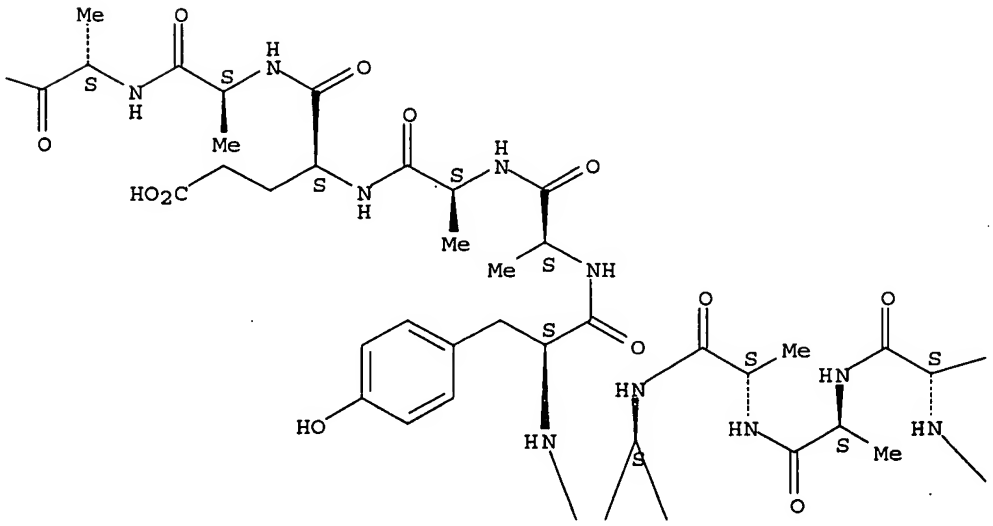
RELATED SEQUENCES AVAILABLE WITH SEQLINK
MF C105 H177 N31 O35
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PRP (Properties); USES (Uses)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



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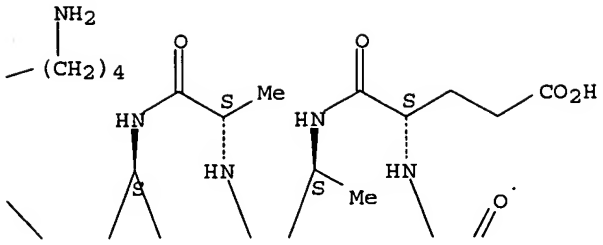

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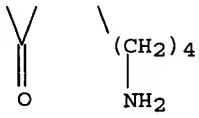

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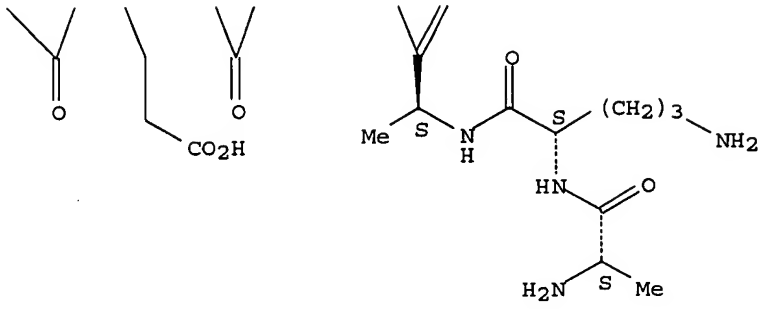

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 557-59-5 REGISTRY
CN Tetracosanoic acid (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN FL 88

Search done by Noble Jarrell

CN FL 88 (fatty acid)
CN L 88
CN L 88 (fatty acid)
CN Lignoceric acid
CN n-Tetracosanoic acid
FS 3D CONCORD
MF C24 H48 O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

$HO_2C-(CH_2)_{22}-Me$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3727 REFERENCES IN FILE CA (1907 TO DATE)
93 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3735 REFERENCES IN FILE CAPLUS (1907 TO DATE)
26 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 4 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 544-63-8 REGISTRY
CN Tetradecanoic acid (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Myristic acid (8CI)
OTHER NAMES:
CN 1-Tridecanecarboxylic acid
CN Edenor C 14
CN Emery 655
CN Hystrene 9014
CN Kortacid 1499
CN n-Tetradecan-1-oic acid
CN n-Tetradecanoic acid
CN n-Tetradecoic acid
CN NAA 104
CN NAA 142
CN Neo-Fat 14
CN NSC 5028
CN Philacid 1400
CN Prifac 2942

CN Univol U 316S
FS 3D CONCORD
DR 45184-05-2
MF C14 H28 O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PATDPASPC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
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$HO_2C-(CH_2)_{12}-Me$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

19208 REFERENCES IN FILE CA (1907 TO DATE)
786 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
19246 REFERENCES IN FILE CAPLUS (1907 TO DATE)
13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 5 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 506-48-9 REGISTRY
CN Octacosanoic acid (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN HW-SW
CN Licowax S
CN Montanic acid
CN n-Octacosanoic acid
CN NSC 407311
FS 3D CONCORD
MF C28 H56 O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DETHERM*, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NAPRALERT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
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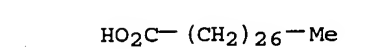

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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830 REFERENCES IN FILE CAPLUS (1907 TO DATE)
18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 506-30-9 REGISTRY
CN Eicosanoic acid (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Arachic acid
CN Arachidic acid
CN Icosanoic acid
CN n-Eicosanoic acid
CN NSC 93983
FS 3D CONCORD
MF C20 H40 O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB
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Other Sources: DSL**, EINECS**, TSCA**
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DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

$HO_2C-(CH_2)_{18}-Me$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9138 REFERENCES IN FILE CA (1907 TO DATE)
229 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
9150 REFERENCES IN FILE CAPLUS (1907 TO DATE)
92 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 334-48-5 REGISTRY
CN Decanoic acid (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-Nonanecarboxylic acid
CN Capric acid
CN Caprinic acid
CN Caprynic acid
CN Decoic acid
CN Decylic acid
CN Emery 659
CN Lunac 10-95
CN Lunac 10-98
CN n-Capric acid
CN n-Decanoic acid
CN n-Decoic acid
CN n-Decylic acid
CN NAA 102
CN NSC 5025
CN Prifac 2906
CN Prifac 296
FS 3D CONCORD
MF C10 H20 O2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

$HO_2C-(CH_2)_8-Me$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9238 REFERENCES IN FILE CA (1907 TO DATE)
788 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
9251 REFERENCES IN FILE CAPLUS (1907 TO DATE)
12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 8 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 143-07-7 REGISTRY
CN Dodecanoic acid (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Lauric acid (8CI)
OTHER NAMES:
CN 1-Undecanecarboxylic acid
CN ABL
CN Aliphat No. 4
CN Dodecylic acid
CN Edenor C 1298-100
CN Emery 651
CN Hystrene 9512
CN Kortacid 1299
CN Laurostearic acid
CN Lunac L 70
CN Lunac L 98
CN n-Dodecanoic acid
CN NAA 122
CN NAA 312
CN Neo-Fat 12
CN Neo-Fat 12-43
CN Nissan NAA 122
CN NSC 5026
CN Philacid 1200
CN Prifac 2920
CN Univol U 314
CN Vulvic acid
FS 3D CONCORD
DR 7632-48-6, 8000-62-2, 8045-27-0, 203714-07-2
MF C12 H24 O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU

(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

$HO_2C-(CH_2)_{10}-Me$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16322 REFERENCES IN FILE CA (1907 TO DATE)
1353 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
16350 REFERENCES IN FILE CAPLUS (1907 TO DATE)
11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 9 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN **112-85-6** REGISTRY
CN Docosanoic acid (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-Docosanoic acid
CN B 95
CN B 95 (acid)
CN Behenic acid
CN Edenor C 22-85R
CN EXL 5
CN Glycon B 70
CN Hydrofol 2022-55
CN Hydrofol Acid 560
CN n-Docosanoic acid
CN NAA 222S
CN NAA 22S
CN NSC 32364
CN Prifac 2987
FS 3D CONCORD
MF C22 H44 O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

$HO_2C-(CH_2)_{20}-Me$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7130 REFERENCES IN FILE CA (1907 TO DATE)
445 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7142 REFERENCES IN FILE CAPLUS (1907 TO DATE)
93 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 10 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 57-11-4 REGISTRY
CN Octadecanoic acid (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-Heptadecanecarboxylic acid
CN 17FA
CN 400JB9103-88
CN A 1760
CN Adeka Fatty Acid SA 910
CN Barolub FTA
CN Century 1210
CN Century 1220
CN Century 1230
CN Century 1240
CN Edenor C 18/98
CN Edenor C18
CN Edenor HT-JG 60
CN Edenor ST 1
CN Edenor ST 20
CN Emersol 120
CN Emersol 153NF
CN Emersol 6349
CN F 3
CN F 3 (lubricant)
CN FA 1655
CN G 270
CN Humko Industrene R
CN Hydrofol Acid 150
CN Hydrofol Acid 1895
CN Hystrene 5016
CN Hystrene 80
CN Hystrene 9718
CN Hystrene 9718NF
CN Hystrene 9718NFFG
CN Hystrene S 97
CN Hystrene T 70
CN Industrene 5016K
CN Industrene 8718
CN Industrene 9018
CN Industrene R
CN Kam 1000
CN Kam 2000
CN Kam 3000
CN Kortacid 1895
CN Loxiol G 20
CN Lunac 30
CN Lunac S 20
CN Lunac S 30
CN Lunac S 40
CN Lunac S 50
CN Lunac S 90
CN Lunac S 90KC
CN Lunac S 98

CN Lunac YA
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
FS 3D CONCORD
DR 8013-28-3, 8023-06-1, 8037-40-9, 8037-83-0, 8039-51-8, 8039-52-9, 8039-53-0, 8039-54-1, 58392-66-8, 134503-33-6, 82497-27-6, 39390-61-9, 197923-10-7, 294203-07-9
MF C18 H36 O2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PATDPASPC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

$HO_2C-(CH_2)_{16}-Me$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

46694 REFERENCES IN FILE CA (1907 TO DATE)
3453 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
46755 REFERENCES IN FILE CAPLUS (1907 TO DATE)
19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 11 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 57-10-3 REGISTRY
CN Hexadecanoic acid (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Palmitic acid (7CI, 8CI)
OTHER NAMES:
CN 1-Pentadecanecarboxylic acid
CN Cetylic acid
CN Edenor C16
CN Emersol 143
CN FA 1695
CN Hydrofol Acid 1690
CN Hystrene 9016
CN Kortacid 1698

Search done by Noble Jarrell

CN Loxiol EP 278
CN Lunac P 95
CN Lunac P 95KC
CN Lunac P 98
CN n-Hexadecanoic acid
CN n-Hexadecoic acid
CN NAA 160
CN Neo-Fat 16
CN NSC 5030
CN PA 900
CN Palmitinic acid
CN Pentadecanecarboxylic acid
CN Prifac 2960
CN Pristerene 4934
FS 3D CONCORD
DR 60605-23-4, 66321-94-6, 116860-99-2, 212625-86-0
MF C16 H32 O2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PATDPASPC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

$HO_2C-(CH_2)_{14}-Me$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

39069 REFERENCES IN FILE CA (1907 TO DATE)
1512 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
39123 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> b wpix

FILE 'WPIX' ENTERED AT 09:19:20 ON 11 JUL 2005

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FILE LAST UPDATED:          7 JUL 2005      <20050707/UP>
MOST RECENT DERWENT UPDATE:     200543        <200543/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

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    GUIDES, PLEASE VISIT:
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    FIRST VIEW - FILE WPIFV.
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http://thomsonderwent.com/support/dwpiref/reftools/classification/code-revision/
    FOR DETAILS. <<<

=> d all dcn tot 14

L4   ANSWER 1 OF 1  WPIX  COPYRIGHT 2005 THE THOMSON CORP on STN
AN   2001-138120 [14]   WPIX
DNC  C2001-040662
TI   New amphiphatic peptide conjugate having detergent properties, and
     hydrophobic and hydrophilic phase, useful e.g. for stabilizing and
     crystallizing proteins and membrane proteins, as cytolytic agents,
     surfactants or emulsifiers.
DC   B04
IN   PRIVE, G
PA   (UYHE-N) UNIV HEALTH NETWORK
CYC  95
PI   WO 2001002425   A2 20010111 (200114)* EN   29    C07K001-00
        RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
            NL OA PT SD SE SL SZ TZ UG ZW
         W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM
            DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
            LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
            SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
     AU 2000056681   A  20010122 (200125)             C07K001-00
     EP 1196434      A2 20020417 (200233)  EN         C07K014-00
         R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
            RO SE SI
ADT  WO 2001002425 A2 WO 2000-CA773 20000629; AU 2000056681 A AU
     2000-56681 20000629; EP 1196434 A2 EP 2000-941846 20000629, WO
     2000-CA773 20000629
FDT  AU 2000056681 A Based on WO 2001002425; EP 1196434 A2 Based on WO
     2001002425
PRAI US 1999-140988P      19990629
IC   ICM  C07K001-00; C07K014-00
     ICS  C07K014-705
AB   WO 200102425 A UPAB: 20010312
     NOVELTY - An amphiphatic peptide conjugate having detergent properties,
     and a hydrophobic and hydrophilic face, is new.
          DETAILED DESCRIPTION - An amphiphatic peptide conjugate having
     detergent properties, and a hydrophobic and hydrophilic face, is new. The
     peptide moiety of the conjugate comprises a first end covalently linked to
     a first aliphatic hydrocarbon moiety, and a second end covalently linked
     to a second aliphatic hydrocarbon moiety. The aliphatic moieties are
```

linked such that they are associated with the peptide moiety of the conjugate.

ACTIVITY - None given.

MECHANISM OF ACTION - None given.

USE - The amphiphatic peptide conjugate may be used for the stabilization and crystallization of proteins and membrane proteins, for modifying the properties of lipid bilayer membranes, as cytolytic agents, as molecules that can facilitate the transport of polar molecules across biological membranes, and as emulsifiers and surfactants.

Dwg.0/3

FS CPI

FA AB; DCN

MC CPI: B04-C01E; B04-N04A; B12-M09

M1 *01* DCN: RA3BAW-Q; RA3BAW-N

M1 *02* DCN: RA01IK-Q; RA01IK-N

=> b home

FILE 'HOME' ENTERED AT 09:19:42 ON 11 JUL 2005

=>

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=> d his

     (FILE 'HOME' ENTERED AT 09:17:23 ON 11 JUL 2005)

     FILE 'HCAPLUS' ENTERED AT 09:17:45 ON 11 JUL 2005
L1            1 (WO2000-CA00773# OR US99-140988#)/AP,PRN

     FILE 'REGISTRY' ENTERED AT 09:18:44 ON 11 JUL 2005

     FILE 'HCAPLUS' ENTERED AT 09:18:45 ON 11 JUL 2005
L2              TRA L1 1- RN :        11 TERMS

     FILE 'REGISTRY' ENTERED AT 09:18:45 ON 11 JUL 2005
L3           11 SEA L2

     FILE 'WPIX' ENTERED AT 09:18:48 ON 11 JUL 2005
L4            1 (WO2000-CA00773# OR US99-140988#)/AP,PRN

     FILE 'HCAPLUS' ENTERED AT 09:19:05 ON 11 JUL 2005

     FILE 'REGISTRY' ENTERED AT 09:19:13 ON 11 JUL 2005

     FILE 'WPIX' ENTERED AT 09:19:20 ON 11 JUL 2005

     FILE 'HOME' ENTERED AT 09:19:42 ON 11 JUL 2005

     FILE 'STNGUIDE' ENTERED AT 09:19:46 ON 11 JUL 2005

     FILE 'REGISTRY' ENTERED AT 09:22:21 ON 11 JUL 2005
L5              QUE AXAEAAEKAAKYAAEAAEKAAKAXA/SQSP
L6              QUE A'ORN'AEAAEKAAKYAAEAAEKAAKA'ORN'A/SQSP
L7            7 L5|L6
                SAV TEM AUD482F0/A L7

     FILE 'HCAPLUS' ENTERED AT 09:24:27 ON 11 JUL 2005
L8            2 L7

     FILE 'HCAOLD' ENTERED AT 09:24:36 ON 11 JUL 2005
L9            0 L7

     FILE 'USPATFULL, USPAT2' ENTERED AT 09:24:41 ON 11 JUL 2005
L10           0 L7

=> b reg
FILE 'REGISTRY' ENTERED AT 09:25:22 ON 11 JUL 2005
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STRUCTURE FILE UPDATES:   10 JUL 2005  HIGHEST RN 854370-36-8
DICTIONARY FILE UPDATES:  10 JUL 2005  HIGHEST RN 854370-36-8

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  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
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* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d que sta l7
L7             7 SEA FILE=REGISTRY ABB=ON  PLU=ON  (AXAEAAEKAAKYAAEAAEKAAKAXA)|(
                 A'ORN'AEAAEKAAKYAAEAAEKAAKA'ORN'A)/SQSP


=> b hcap
FILE 'HCAPLUS' ENTERED AT 09:25:32 ON 11 JUL 2005
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L8   ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2005 ACS on STN
AN   2003:75113  HCAPLUS
DN   139:32213
ED   Entered STN:  31 Jan 2003
TI   Lipopeptide detergents designed for the structural study of membrane
     proteins
AU   McGregor, Clare-Louise; Chen, Lu; Pomroy, Neil C.; Hwang, Peter; Go,
     Sandy; Chakrabartty, Avijit; Prive, Gilbert G.
CS   Department of Medical Biophysics, University of Toronto, Toronto, ON, M5G
     2M9, Can.
SO   Nature Biotechnology (2003), 21(2), 171-176
     CODEN: NABIF9; ISSN: 1087-0156
PB   Nature Publishing Group
DT   Journal
LA   English
CC   6-3 (General Biochemistry)
AB   The structural study of membrane proteins requires detergents that can
     effectively mimic lipid bilayers, and the choice of detergent is often a
     compromise between detergents that promote protein stability and
     detergents that form small micelles.  We describe lipopeptide detergents
     (LPDs), a new class of amphiphile consisting of a peptide scaffold that
     supports two alkyl chains, one anchored to each end of an α-helix.
```

The goal was to design a mol. that could self-assemble into a cylindrical micelle with a rigid outer hydrophilic shell surrounding an inner lipidic core. Consistent with this design, LPDs self-assemble into small micelles, can disperse phospholipid membranes, and are gentle, nondenaturing detergents that preserve the structure of the membrane proteins in solution for extended periods of time. The LPD design allows for a membrane-like packing of the alkyl chains in the core of the mol. assemblies, possibly explaining their superior properties relative to traditional detergents in stabilizing membrane protein structures.

ST lipopeptide detergent micelle membrane protein

IT Transport proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(lactose transporter; micelle-forming lipopeptide detergents permit structural study of membrane proteins)

IT Enzymes, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(membrane-associated, PagP; micelle-forming lipopeptide detergents permit structural study of membrane proteins)

IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(membrane; micelle-forming lipopeptide detergents permit structural study of membrane proteins)

IT Detergents
Micelles
(micelle-forming lipopeptide detergents permit structural study of membrane proteins)

IT Bacteriorhodopsins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(micelle-forming lipopeptide detergents permit structural study of membrane proteins)

IT Lipopeptides
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(micelle-forming lipopeptide detergents permit structural study of membrane proteins)

IT **540765-20-6 540765-21-7 540765-22-8**
540765-23-9 540765-24-0
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(micelle-forming lipopeptide detergents permit structural study of membrane proteins)

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD

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IT **540765-20-6 540765-21-7 540765-22-8 540765-23-9 540765-24-0**
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(micelle-forming lipopeptide detergents permit structural study of membrane proteins)

RN 540765-20-6 HCAPLUS

CN L-Alaninamide, N-acetyl-L-alanyl-N5-(1-oxododecyl)-L-ornithyl-L-alanyl-L-α-glutamyl-L-alanyl-L-alanyl-L-α-glutamyl-L-lysyl-L-alanyl-L-alanyl-L-lysyl-L-tyrosyl-L-alanyl-L-alanyl-L-α-glutamyl-L-alanyl-L-alanyl-L-α-glutamyl-L-lysyl-L-alanyl-L-alanyl-L-lysyl-L-alanyl-N5-(1-oxododecyl)-L-ornithyl- (9CI) (CA INDEX NAME)

NTE modified

SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

Absolute stereochemistry.

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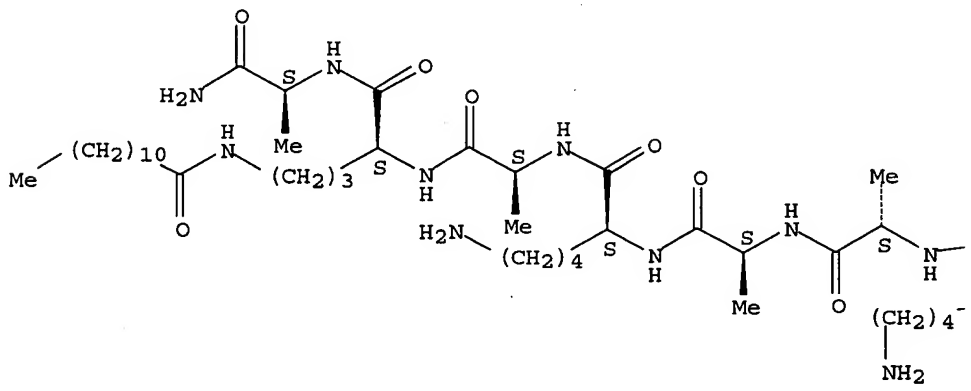

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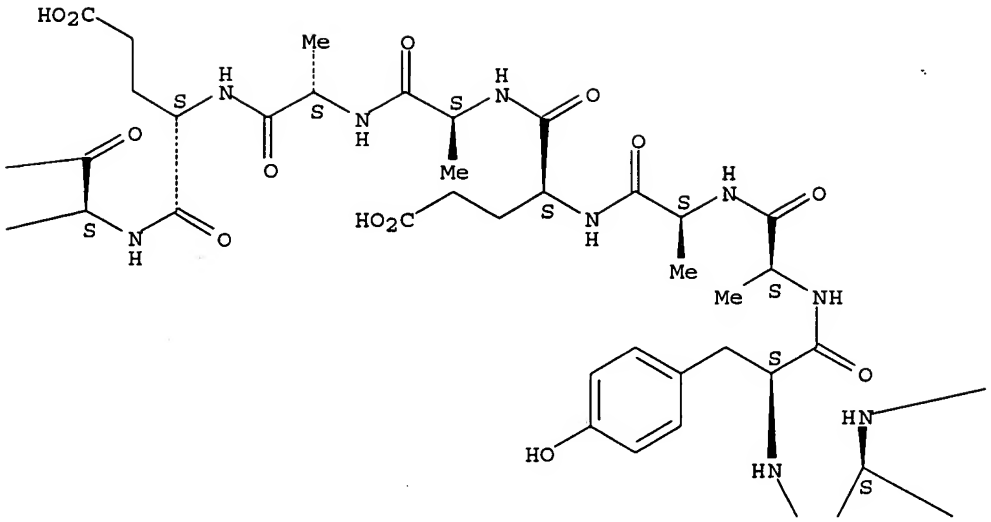

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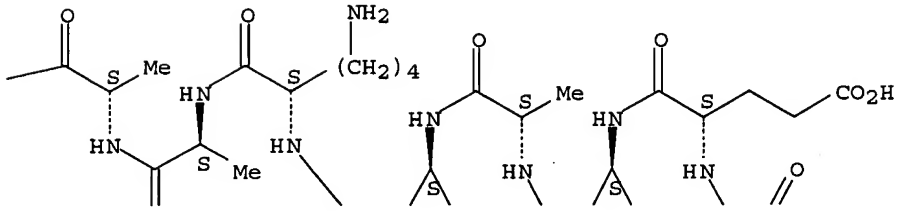

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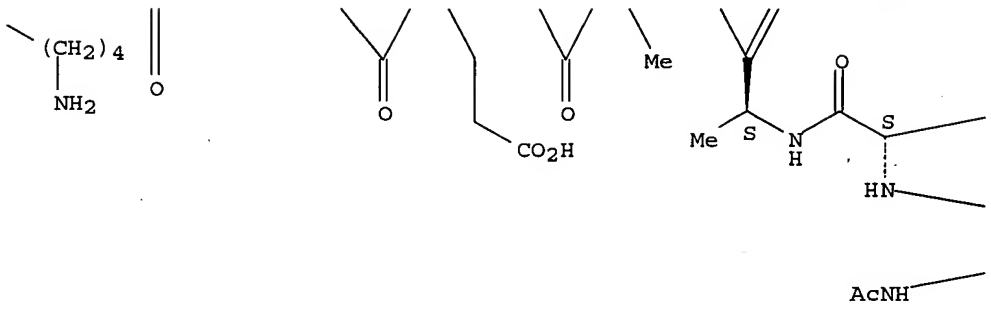

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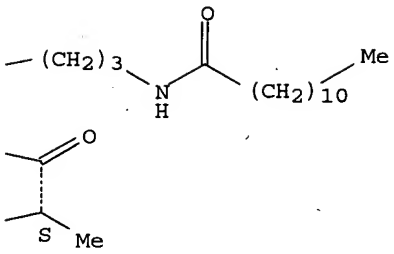

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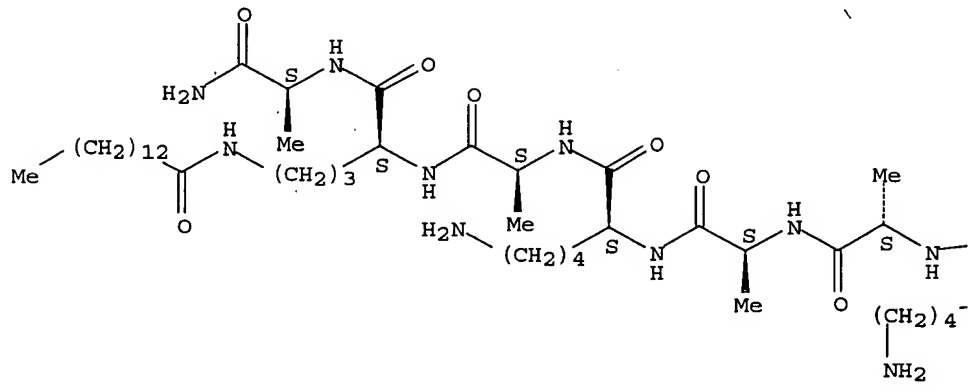
NTE modified

SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

Absolute stereochemistry.

PAGE 1-A



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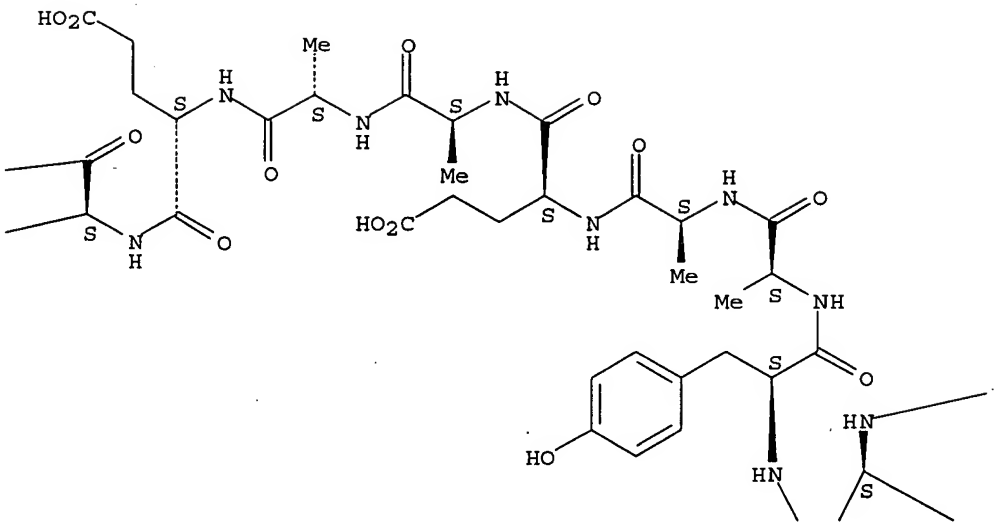

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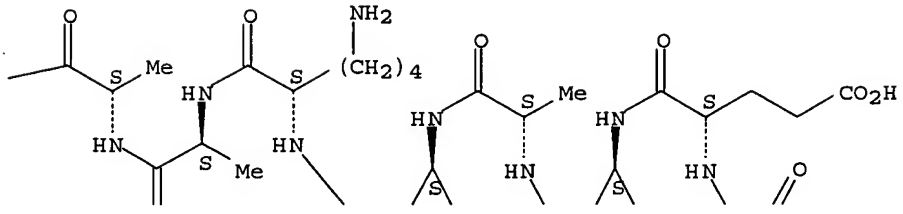

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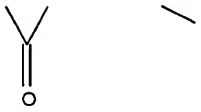

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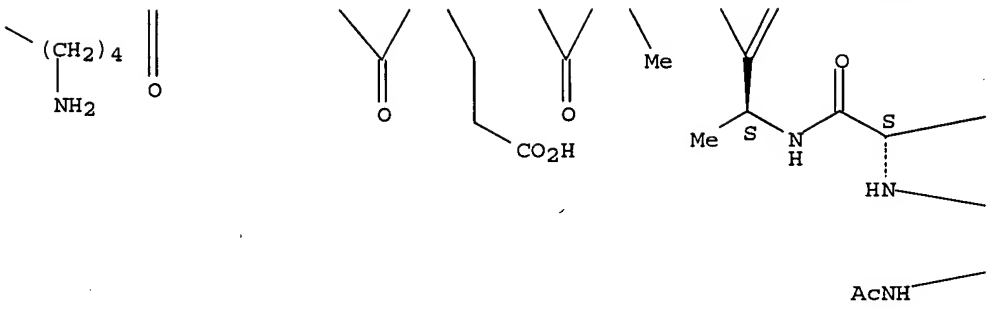

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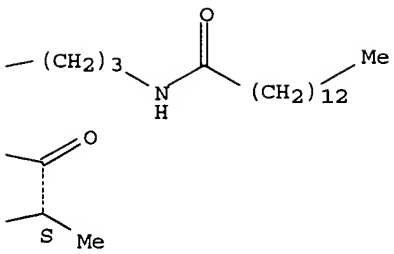

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NTE modified

SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

Absolute stereochemistry.

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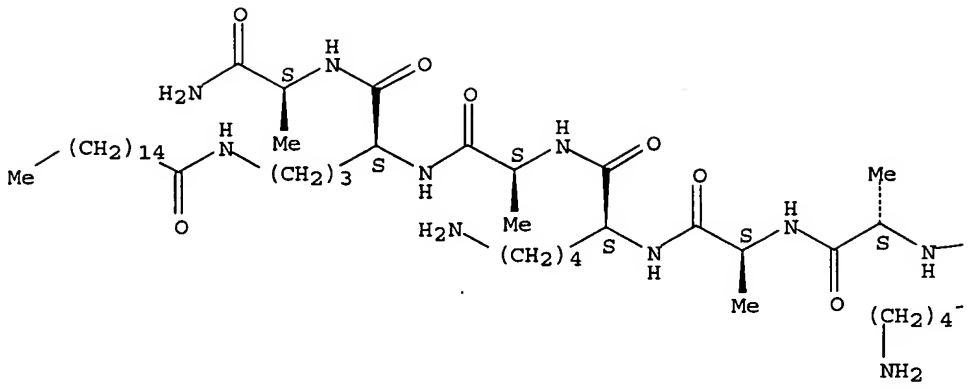

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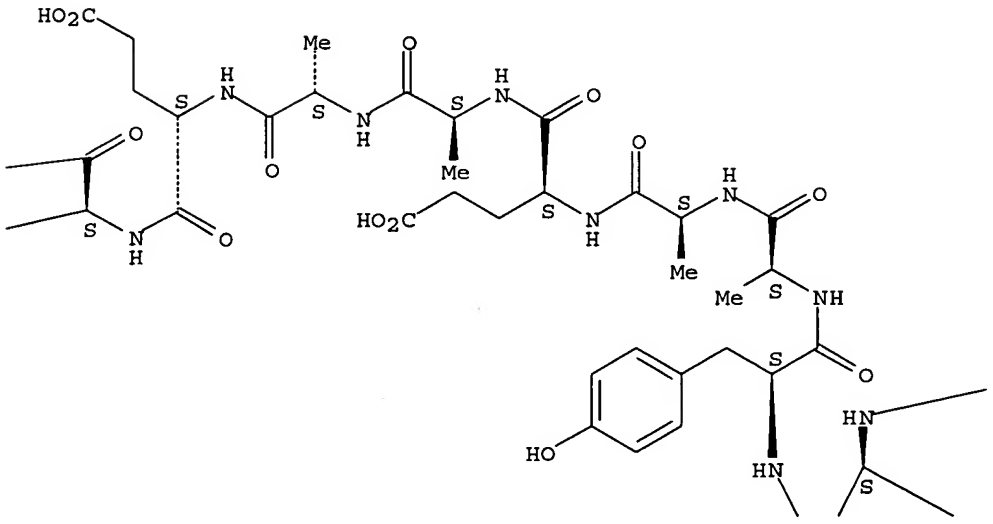

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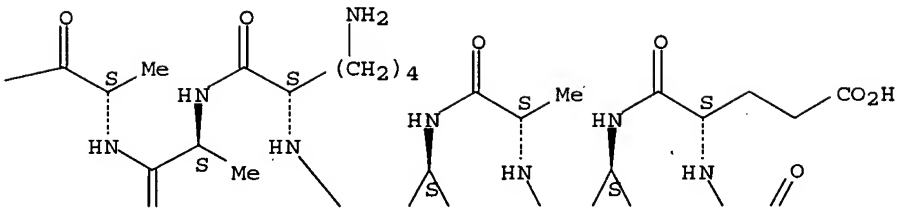

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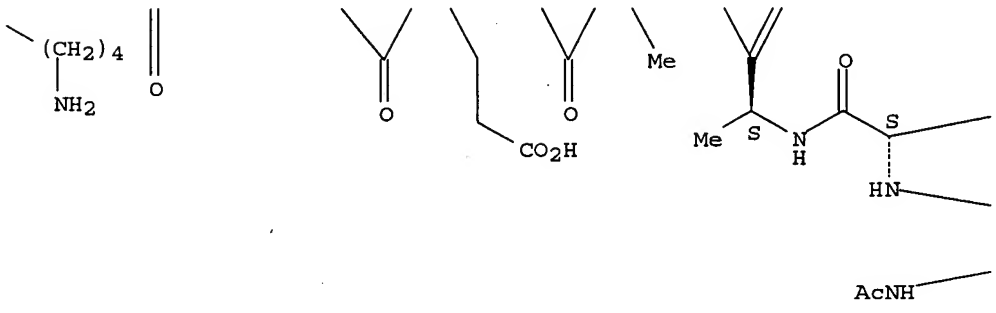

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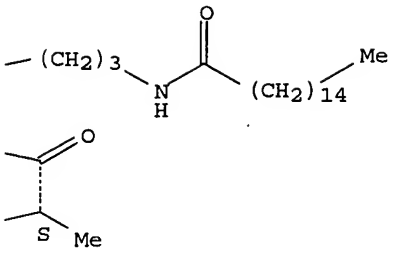

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SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

Absolute stereochemistry.

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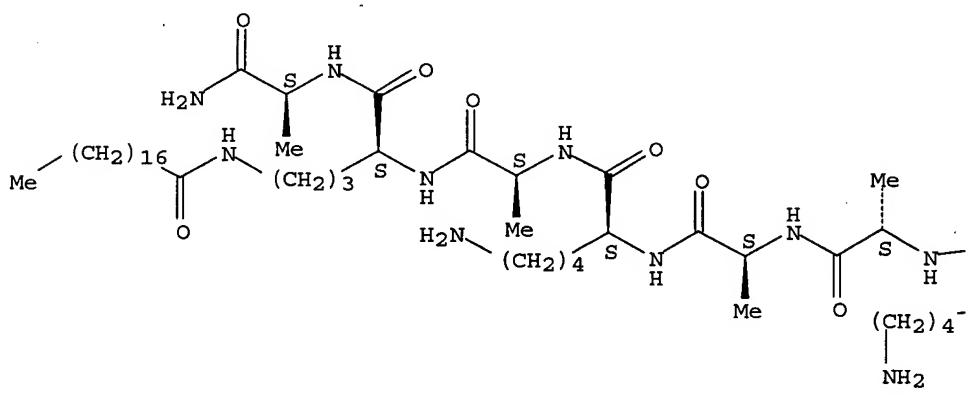

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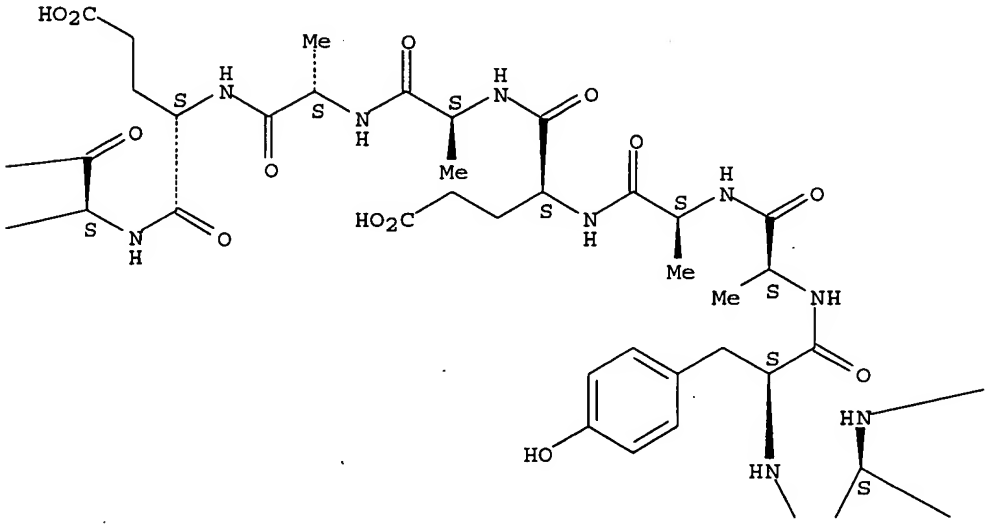

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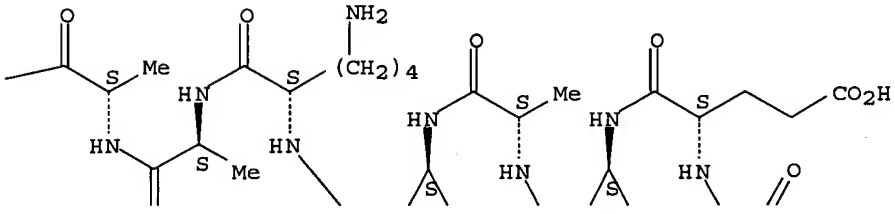

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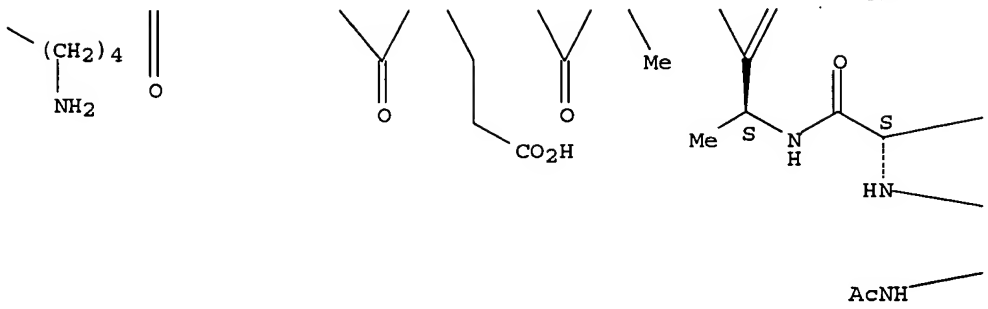

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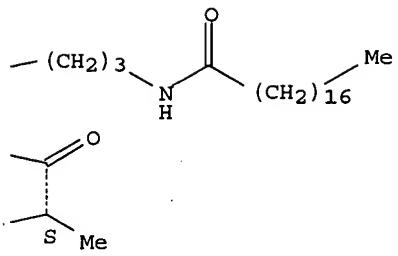

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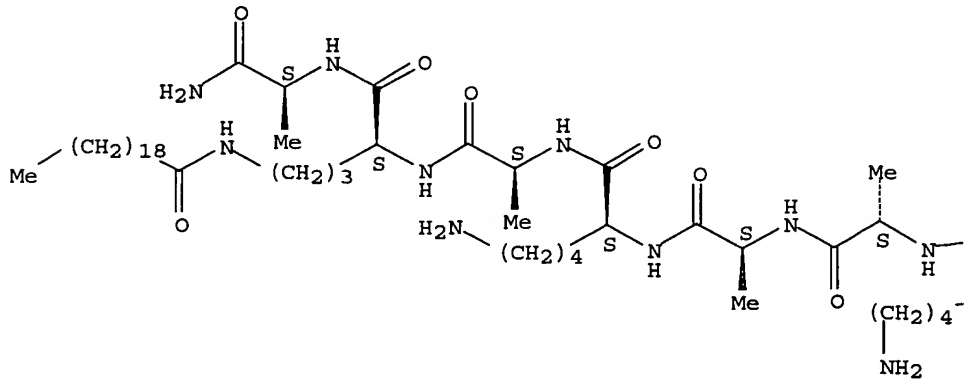
NTE modified

SEQ 1 AXAEAAEKAA KYAAEAAEKA AKAXA

Absolute stereochemistry.

PAGE 1-A



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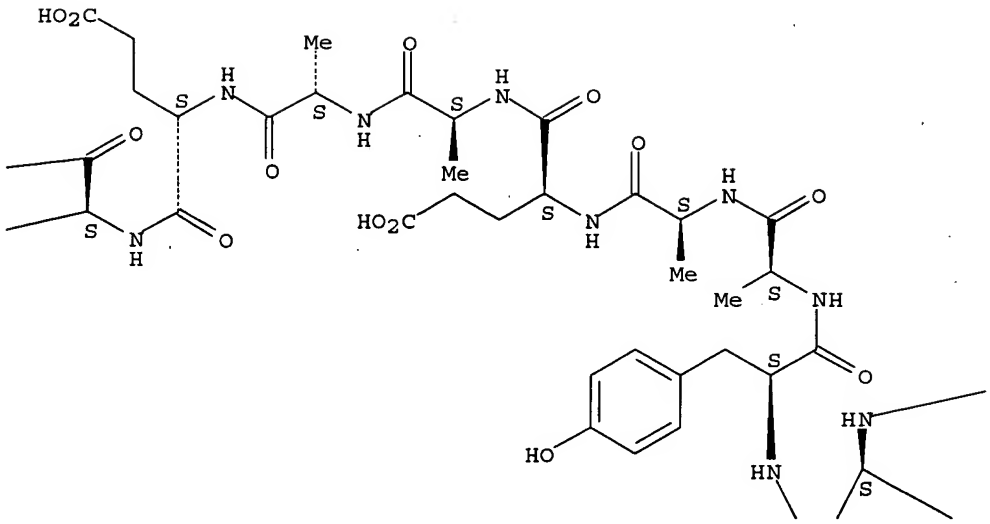

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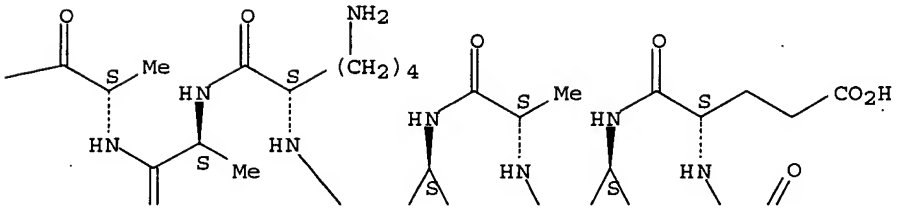

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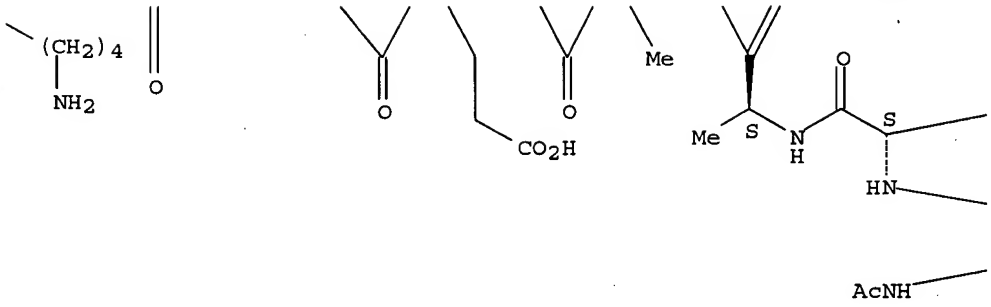

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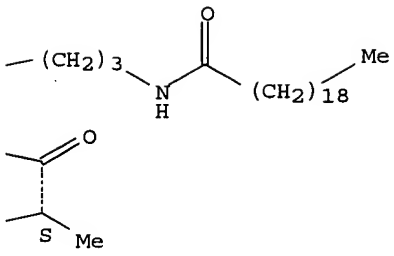

L8 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:31526 HCAPLUS
DN 134:102558
ED Entered STN: 12 Jan 2001
TI Peptide conjugate-based lipopeptide detergents for the stabilization of membrane proteins and interactions with biological membranes
IN Prive, Gil
PA University Health Network, Can.
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07K001-00
CC 46-3 (Surface Active Agents and Detergents)
Section cross-reference(s): 6, 9
FAN.CNT 1

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LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
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CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001002425	ICM	C07K001-00
WO 2001002425	ECLA	C07K014/00B; C07K014/705

AB The present invention provides a novel class of detergents referred to herein as lipopeptide detergents. Lipopeptide detergents comprise an amphipathic α-helical peptide having a hydrophobic or neutral face and a hydrophilic face. To each end of this peptide is covalently linked an aliphatic hydrocarbon tail, these aliphatic tails being linked thereto such that they associate with the hydrophobic or neutral face of the peptide. Lipopeptide detergents can advantageously be used to stabilize membrane proteins in the absence of a phospholipid bilayer in a manner that preserves the native conformation and permits the subsequent crystallization thereof.

ST lipopeptide detergent peptide conjugate membrane protein biomembrane; aliph hydrocarbon peptide conjugate lipopeptide detergent

IT Peptides, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(N-Ac; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Peptides, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amides; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Membrane, biological
(bilayer; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Hydrocarbons, uses
RL: NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(conjugated, with peptides; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Fatty acids, uses
RL: NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(conjugates, with peptides; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Peptides, uses
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(conjugates; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Polymer chains

(length, of aliphatic hydrocarbon; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Proteins, specific or class
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(membrane; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Detergents
α-Helix
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Lipopeptides
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Phosphatidylcholines, processes
Phospholipids, processes
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Bacteriorhodopsins
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT Crystal growth
(use of lipopeptide detergents for membrane protein crystallization; peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT **318957-85-6D**, conjugates with aliphatic hydrocarbons
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

IT 57-10-3DP, Hexadecanoic acid, peptide conjugates, uses 57-11-4DP, Octadecanoic acid, peptide conjugates, uses 112-85-6DP, Docosanoic acid, peptide conjugates 143-07-7DP, Dodecanoic acid, peptide conjugates, uses 334-48-5DP, Decanoic acid, peptide conjugates 506-30-9DP, Eicosanoic acid, peptide conjugates 506-48-9DP, Octacosanoic acid, peptide conjugates 544-63-8DP, Tetradecanoic acid, peptide conjugates, uses 557-59-5DP, Tetracosanoic acid, peptide conjugates **318957-87-8DP**, conjugates with fatty acids
RL: NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

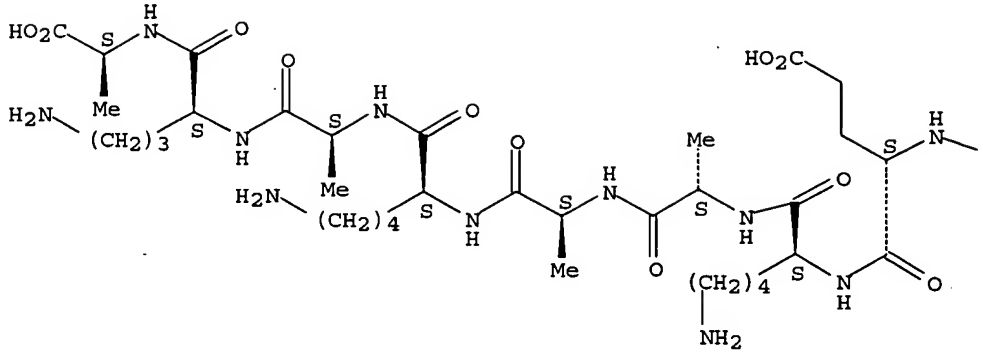
IT **318957-85-6D**, conjugates with aliphatic hydrocarbons
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

RN 318957-85-6 HCAPLUS

CN L-Alanine, L-alanyl-L-ornithyl-L-alanyl-L-α-glutamyl-L-alanyl-L-alanyl-L-α-glutamyl-L-lysyl-L-alanyl-L-alanyl-L-lysyl-L-tyrosyl-L-alanyl-L-alanyl-L-α-glutamyl-L-alanyl-L-alanyl-L-α-glutamyl-L-lysyl-L-alanyl-L-alanyl-L-lysyl-L-alanyl-L-ornithyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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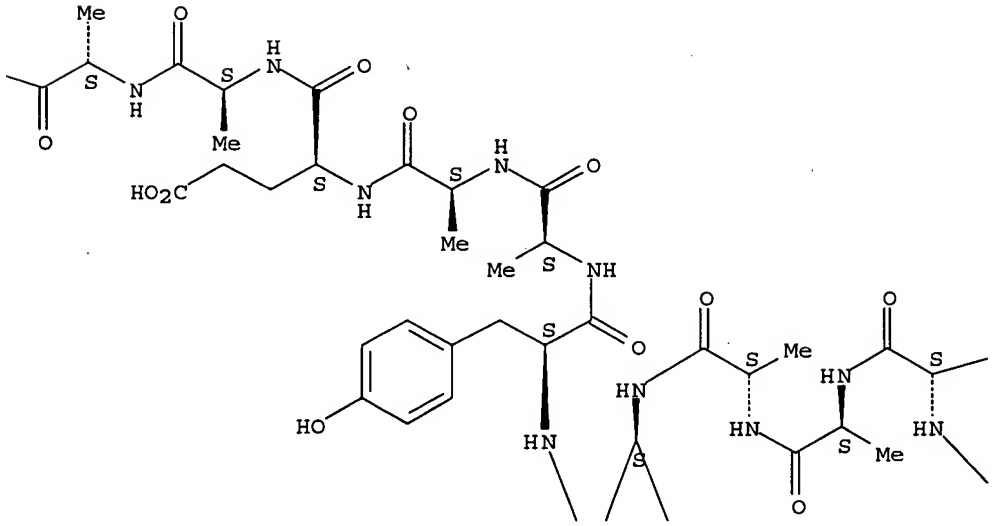

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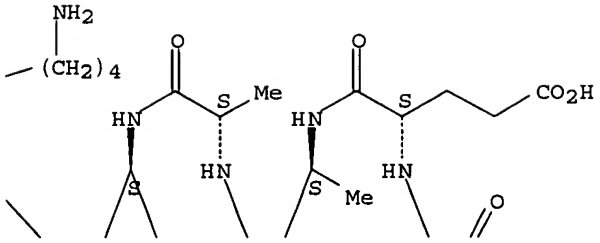

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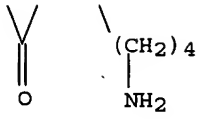

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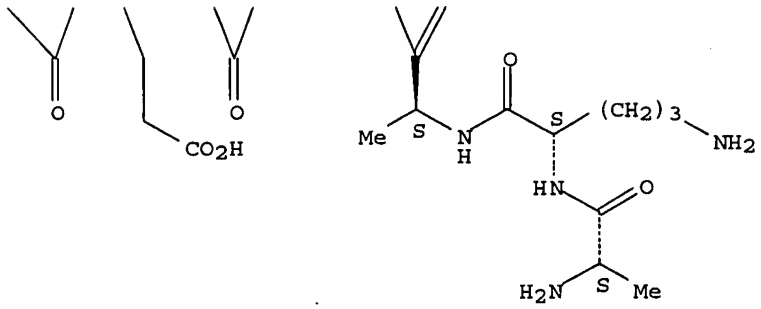

IT 318957-87-8DP, conjugates with fatty acids
RL: NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(peptide conjugate-based lipopeptide detergents for stabilization of membrane proteins and interactions with biol. membranes)

RN 318957-87-8 HCAPLUS

CN L-Alaninamide, N-acetyl-L-alanyl-L-ornithyl-L-alanyl-L-α-glutamyl-L-alanyl-L-alanyl-L-α-glutamyl-L-lysyl-L-alanyl-L-alanyl-L-lysyl-L-tyrosyl-L-alanyl-L-alanyl-L-α-glutamyl-L-alanyl-L-alanyl-L-α-glutamyl-L-lysyl-L-alanyl-L-alanyl-L-lysyl-L-alanyl-L-ornithyl- (9CI) (CA INDEX NAME)

Search done by Noble Jarrell

NTE modified

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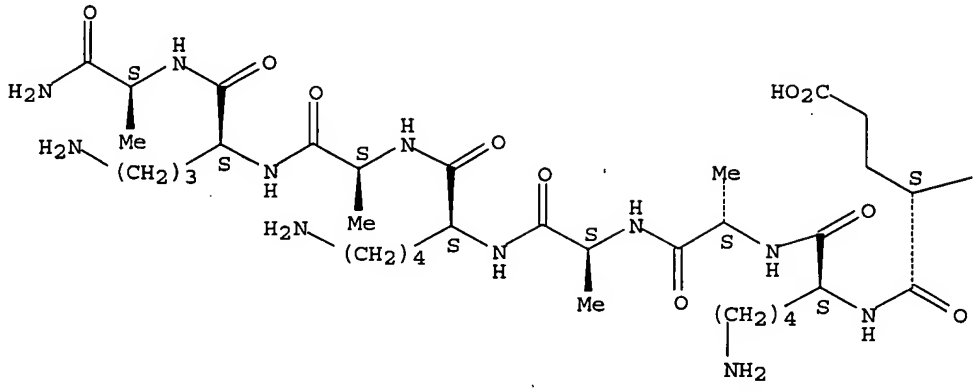
Absolute stereochemistry.

PAGE 1-A



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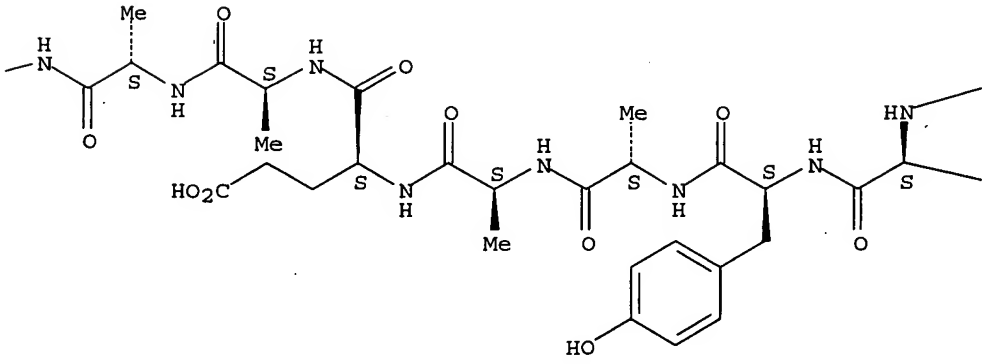

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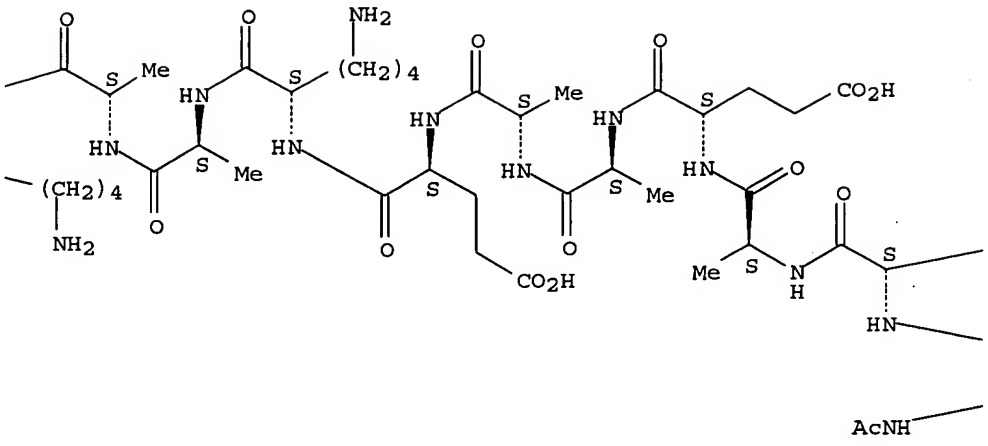

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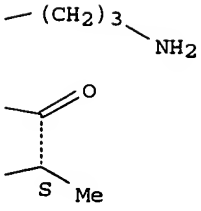

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